DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

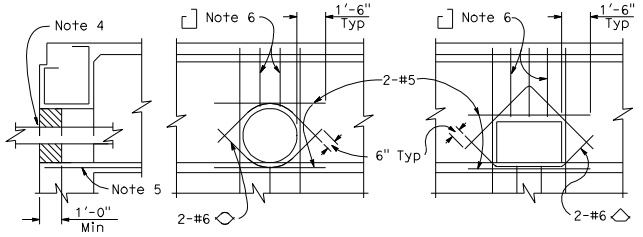
May 1, 2006

PLANS APPROVAL DATE

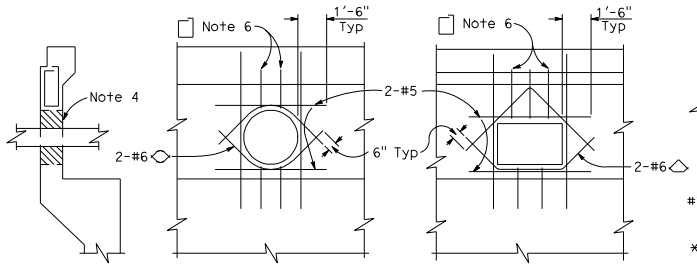
Madhwesh Raghavendrachar No. C51119 Exp. 9-30-07 CIVIL — REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA

To get to the Caltrans web site, go to: http://www.dot.ca.gov

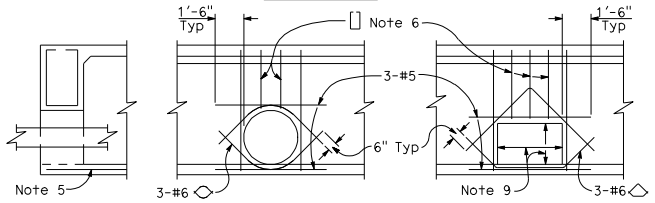
ABUTMENT DIAPHRAGMS



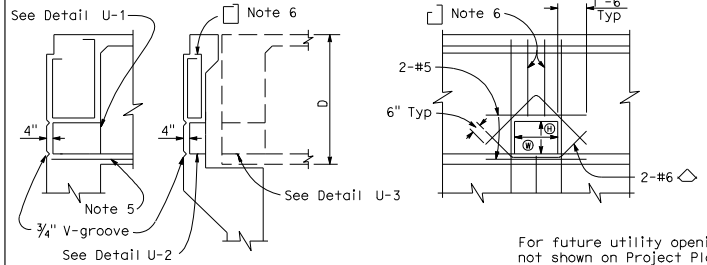
DETAIL U-1



DETAIL U-2



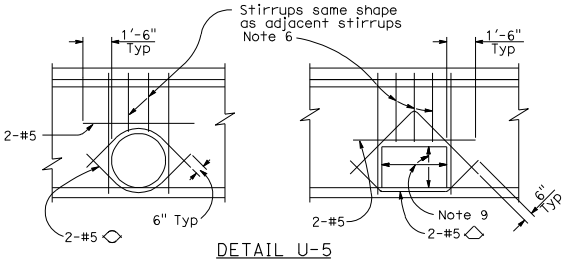
DETAIL U-3



DETAIL U-4

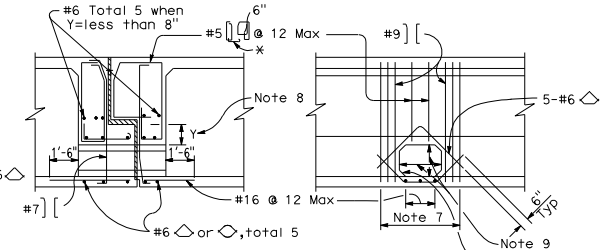
(FOR FUTURE UTILITY OPENING)

INTERMEDIATE DIAPHRAGMS AND HINGES

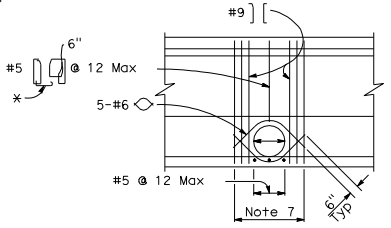


DETAIL U-5

AT INTERMEDIATE DIAPHRAGM

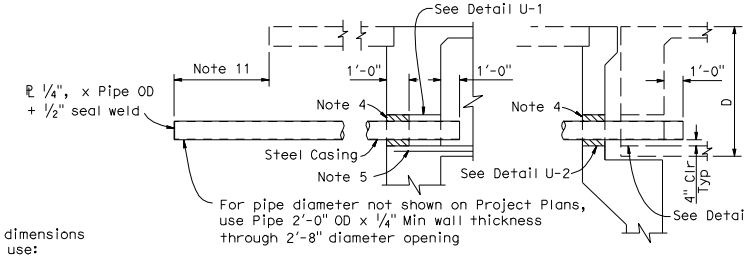


* Omit #5 when Y=less than 8"



DETAIL U-6

AT HINGE



DETAIL U-8

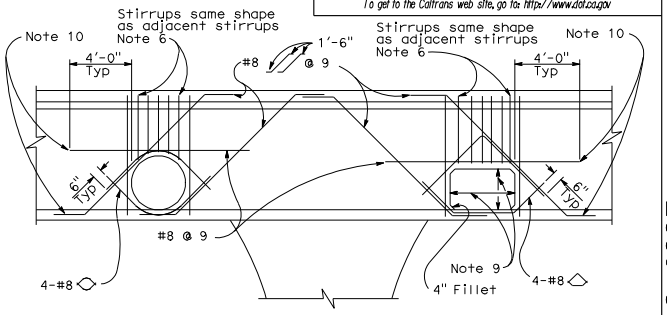
(FOR FUTURE UTILITY PROVISIONS UNDER APPROACH SLAB)

For future utility opening dimensions not shown on Project Plans use:

Ⓗ = 1/3 D or 1'-6" minimum, whichever is greater.

Ⓦ = 1/3 D or 2'-0" minimum, whichever is greater.

BENT CAPS



DETAIL U-7

NEAR OR BETWEEN COLUMNS

NOTES:

1. The exact location, elevation, size, and direction of openings shall be in accordance with the Project Plans and as directed by the Engineer.
2. Girders not shown. See Project Plans.
3. All reinforcement detailed to be placed in addition to reinforcement shown on Project Plans.
4. Seal utilities at abutments with concrete or mortar, after tightly wrapping utility with 2 layers of 15 LBS building paper. If structure is prestressed, seal to be placed after stressing is completed.
5. Main reinforcement to clear opening.
6. Reinforcement to be same bar size and 2/3 the spacing of adjacent reinforcement shown on Project Plans.
7. Replace each set of 2-#9 bars cut off by opening. Place 1/2 on each side of opening.
8. When "Y" is less than 8", extend top of opening to bottom of bearing seat elevation.
9. For future utility opening dimensions, see Project Plans and Detail U-4.
10. When there is insufficient space to place reinforcement as shown, hook reinforcement into exterior girder.
11. Unless otherwise shown on Project Plans, casing shall extend to the greater of 5'-0" beyond the end of the approach slab, 5'-0" beyond the end of the adjacent wingwall, or 20'-0" beyond the back of the abutment.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

UTILITY OPENING BOX GIRDER

NO SCALE

B7-10